

STIG-Biot ch/ChemLib

75704

From: Gibbs, Terra  
Sent: Friday, September 13, 2002 1:40 PM  
To: STIC-Biotech/ChemLib  
Subject: SEQ Search

Could you please search SEQ ID NO: 3 of serial number 10/008789

Please do a length limited search of 50 nucleotides or less. Also no EST's.

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306-3221

THANK YOU!

Edward Hart  
Technical Info. Specialist  
STIC/Biotech  
CMI 6B02 Tel: 305-9203

Searcher: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Location: \_\_\_\_\_  
Date Picked Up: 9/14/02  
Date Completed: 9/18/02  
Searcher Prep/Review: \_\_\_\_\_  
Clerical: \_\_\_\_\_  
Online time: \_\_\_\_\_

TYPE OF SEARCH:  
NA Sequences: \_\_\_\_\_  
AA Sequences: \_\_\_\_\_  
Structures: \_\_\_\_\_  
Bibliographic: \_\_\_\_\_  
Litigation: \_\_\_\_\_  
Full text: \_\_\_\_\_  
Patent Family: \_\_\_\_\_  
Other: \_\_\_\_\_

VENDOR/COST (where applic.)  
STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
Questel/Orbit: \_\_\_\_\_  
DRLink: \_\_\_\_\_  
Lexis/Nexis: \_\_\_\_\_  
Sequence Sys.: Ø1  
WWW/Internet: \_\_\_\_\_  
Other (specify): \_\_\_\_\_

GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: September 18, 2002, 00:00:48 : Search time 2325.86 Seconds

(without alignments)  
15790.319 Million cell updates/sec

Title: US-10-008-789-3  
Perfect score: 1755

Sequence: 1 cgcgccggcaggtcccaaaa.....aaaaaaaaaaaaaaaa 1755

Scoring table: IDENTITY\_NUC  
Gapop 10.0, Gapext 1.0

Searched: 1797656 seqs, 10463268293 residues

Total number of hits satisfying chosen parameters: 708260

Minimum DB seq length: 0  
Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database:

GenEmbl:  
1: gb\_da:\*  
2: gb\_htg:\*  
3: gb\_in:\*  
4: gb\_om:\*  
5: gb\_ov:\*  
6: gb\_pat:\*  
7: gb\_ph:\*  
8: gb\_pl:\*  
9: gb\_pr:\*  
10: gb\_ro:\*  
11: gb\_sls:\*  
12: gb\_sy:\*  
13: gb\_un:\*  
14: gb\_vl:\*  
15: em\_da:\*  
16: em\_fun:\*  
17: em\_hum:\*  
18: em\_in:\*  
19: em\_mu:\*  
20: em\_om:\*  
21: em\_or:\*  
22: em\_ov:\*  
23: em\_pat:\*  
24: em\_ph:\*  
25: em\_pl:\*  
26: em\_ro:\*  
27: em\_sls:\*  
28: em\_un:\*  
29: em\_vl:\*  
30: em\_htg\_hum:\*  
31: em\_htg\_inv:\*  
32: em\_htg\_other:\*  
33: em\_htgo\_inv:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Match Length DB ID

Description

|    |      |     |    |   |            |                     |
|----|------|-----|----|---|------------|---------------------|
| 1  | 30.6 | 1.7 | 48 | 6 | AR079463   | AR079463 Sequence   |
| 2  | 24.8 | 1.4 | 35 | 6 | 129924     | 129924 Sequence 37  |
| 3  | 24.8 | 1.4 | 35 | 6 | 129930     | 129930 Sequence 43  |
| 4  | 24.8 | 1.4 | 37 | 6 | 129925     | 129925 Sequence 38  |
| 5  | 24.8 | 1.4 | 41 | 6 | 129926     | 129926 Sequence 39  |
| 6  | 24.8 | 1.4 | 44 | 6 | 129927     | 129927 Sequence 40  |
| 7  | 24.4 | 1.4 | 40 | 6 | AX299729   | AX299729 Sequence   |
| 8  | 24.4 | 1.4 | 47 | 6 | AX114342   | AX114342 Sequence   |
| 9  | 24.4 | 1.4 | 48 | 6 | AX166859   | AX166859 Sequence   |
| 10 | 24.2 | 1.4 | 29 | 9 | HSR4241944 | AJ241944 Homo sapi  |
| 11 | 23.8 | 1.4 | 29 | 9 | HSR4241944 | AX299729 Sequence   |
| 12 | 23.6 | 1.3 | 38 | 6 | AX009602   | AX168869 Sequence   |
| 13 | 23.6 | 1.3 | 45 | 6 | 132121     | AJ241944 Homo sapi  |
| 14 | 23.4 | 1.3 | 37 | 6 | AX183756   | AX009602 Sequence   |
| 15 | 23.4 | 1.3 | 42 | 6 | AR093351   | 132121 Sequence 11  |
| 16 | 23.4 | 1.3 | 42 | 6 | AR135443   | AX183756 Sequence   |
| 17 | 23.4 | 1.3 | 45 | 6 | AX172348   | AR093361 Sequence   |
| 18 | 23.4 | 1.3 | 46 | 6 | AX287577   | AR135443 Sequence   |
| 19 | 23.4 | 1.3 | 46 | 6 | AX287581   | AX172348 Sequence   |
| 20 | 23.4 | 1.3 | 50 | 6 | AX160532   | AX287577 Sequence   |
| 21 | 23.2 | 1.3 | 37 | 9 | HSOBR105   | AX287581 Sequence   |
| 22 | 23.2 | 1.3 | 46 | 6 | AX287579   | AX160532 Sequence   |
| 23 | 23.2 | 1.3 | 46 | 6 | AX287583   | U62489 Human OBR 9  |
| 24 | 23.2 | 1.3 | 50 | 6 | AX159492   | AX287579 Sequence   |
| 25 | 23.2 | 1.3 | 50 | 6 | AX159494   | AX287583 Sequence   |
| 26 | 23.2 | 1.3 | 50 | 6 | AX159496   | AX159492 Sequence   |
| 27 | 23   | 1.3 | 50 | 9 | HSTFE31A4  | AX159494 Sequence   |
| 28 | 22.8 | 1.3 | 33 | 6 | 129922     | AX159496 Sequence   |
| 29 | 22.8 | 1.3 | 40 | 6 | AX299730   | X84568 H. sapiens t |
| 30 | 22.8 | 1.3 | 45 | 6 | AX009469   | 129922 Sequence 35  |
| 31 | 22.8 | 1.3 | 47 | 6 | A25348     | AX299730 Sequence   |
| 32 | 22.8 | 1.3 | 50 | 6 | AX261361   | A25348 Synthetic m  |
| 33 | 22.8 | 1.3 | 50 | 6 | 136502     | AX261361 Sequence   |
| 34 | 22.6 | 1.3 | 38 | 6 | AX009601   | I36502 Sequence 1   |
| 35 | 22.6 | 1.3 | 40 | 6 | AX299737   | AX009601 Sequence   |
| 36 | 22.4 | 1.3 | 36 | 6 | AR099789   | AX299737 Sequence   |
| 37 | 22.4 | 1.3 | 36 | 6 | AR108836   | AR099789 Sequence   |
| 38 | 22.4 | 1.3 | 35 | 6 | AR127808   | AR108836 Sequence   |
| 39 | 22.4 | 1.3 | 36 | 6 | AR135337   | AR127808 Sequence   |
| 40 | 22.4 | 1.3 | 36 | 6 | AR152407   | AR135337 Sequence   |
| 41 | 22.4 | 1.3 | 36 | 6 | AR153821   | AR152407 Sequence   |
| 42 | 22.4 | 1.3 | 36 | 6 | AR177970   | AR153821 Sequence   |
| 43 | 22.4 | 1.3 | 36 | 6 | AR177974   | AR177970 Sequence   |
| 44 | 22.4 | 1.3 | 36 | 6 | AX041011   | AR177974 Sequence   |
| 45 | 22.4 | 1.3 | 36 | 6 | AX046432   | AX041011 Sequence   |

ALIGNMENTS

|            |                                                |             |     |  |  |                        |
|------------|------------------------------------------------|-------------|-----|--|--|------------------------|
| RESULT 1   |                                                |             |     |  |  |                        |
| LOCUS      | AR079463                                       |             |     |  |  |                        |
| DEFINITION | Sequence 14 from patent US 5965541.            | 48 bp       | DNA |  |  | Linear PAT 31-AUG-2000 |
| ACCESSION  | AR079463                                       |             |     |  |  |                        |
| VERSION    | AR079463.1                                     | GI:10006207 |     |  |  |                        |
| KEYWORDS   |                                                |             |     |  |  |                        |
| SOURCE     | Unknown.                                       |             |     |  |  |                        |
| ORGANISM   | Unclassified.                                  |             |     |  |  |                        |
| REFERENCE  | 1 (bases 1 to 48)                              |             |     |  |  |                        |
| AUTHORS    | Wickham T.J., Kovsed, I. and Brough, D.E.      |             |     |  |  |                        |
| TITLE      | Vectors and methods for gene transfer to cells |             |     |  |  |                        |
| JOURNAL    | Patent: US 5965541-A 14 OCT-1999;              |             |     |  |  |                        |
| FEATURES   | Location/Qualifiers                            |             |     |  |  |                        |
| SOURCE     | 1..48                                          |             |     |  |  |                        |
| BASE COUNT | 30 a 4 c 6 g                                   |             |     |  |  | 8 t                    |
| ORIGIN     | /organism="unknown"                            |             |     |  |  |                        |

Query Match 1.7%; Score 30.6; DB 6; Length 48;  
Best Local Similarity 80.0%; Pred. No. 2,2e+04;





|          |                                                                            |
|----------|----------------------------------------------------------------------------|
| CC       | primers are irreversible bound to a solid support, and the DNA from a      |
| CC       | sample is absorbed and reversibly bound, incubated under amplification     |
| CC       | reaction conditions and the presence of the specific target DNA is         |
| CC       | detected. The method is useful for detecting the presence of a specific    |
| CC       | nucleic acid (e.g. bacterial, viral or parasitic DNA) in a sample or in a  |
| CC       | cell. SPART may be used for scanning large genomic fragments for the       |
| CC       | presence of genes or gene families: or for bacterial diagnostics by        |
| CC       | examining the ribosomal RNA genes: or for viral diagnostics by scanning    |
| CC       | for the presence of viral nucleic acid sequences in a sample. SPART may    |
| CC       | also be used in forensic medicine by detecting and identifying species     |
| CC       | specific sequences or for the presence of major histocompatibility         |
| CC       | complex. The present sequence represents a primer specific for the human   |
| CC       | herpesvirus 6 (HHV6) p1 gene. The primer is used in an example             |
| CC       | illustrating the method of the invention.                                  |
| XX       |                                                                            |
| 50       | Sequence 40 BP: 7 A: 2 C: 6 G: 25 T: 0 other:                              |
| Qy       | Query Match 1.5% Score 26.4; DB 22: Length 40:                             |
|          | Best Local Similarity 83.3% Pred. No. 4.7e+03:                             |
|          | Matches 30: Conservative 0: Mismatches 6: Indels 0: Gaps 0:                |
| Dh       | 1719 taaccctcgcagttccacaaaaaaaaaaaaaa 1754                                 |
|          |                                                                            |
|          | 36 TAACCCCTGATTGAAAAAATAAAAAAAAAA 1                                        |
| RESULT 4 |                                                                            |
| ID       | ALJ32265/c                                                                 |
| XX       | ALJ32265 standard: DNA: 45 BP.                                             |
| AC       |                                                                            |
| XX       | ALJ32265:                                                                  |
| DT       |                                                                            |
| XX       | 24-JAN-2002 (first entry)                                                  |
| DE       |                                                                            |
| XX       | Human SNP oligonucleotide #5473.                                           |
| XX       |                                                                            |
| KW       | Immunosuppressive: immunostimulatory: antinflammatory: cytostatic:         |
| KW       | neuroprotective: antimicrobial: gene therapy: vaccine: amylase: cancer:    |
| KW       | amyloid protein: angiotensin: apoptosis related protein: cadherin:         |
| KW       | cytoind: polymerase: oncogene: histone: kinase: colony stimulating factor: |
| KW       | complement related protein: cytochrome: kinase: cytokine: interferon:      |
| KW       | interleukin: G-protein coupled receptor: thioesterase: inflammation:       |
| FW       | multifactorial disease: autoimmune disease: infection:                     |
| XX       | nervous system disease: ss.                                                |
| XX       |                                                                            |
| OS       | Homo sapiens.                                                              |
| XX       |                                                                            |
| PN       | WO200147944-A2.                                                            |
| XX       |                                                                            |
| PD       | 05-JUL-2001.                                                               |
| XX       |                                                                            |
| PE       | 28-DEC-2000: 2000WO-US35498.                                               |
| XX       |                                                                            |
| PR       | 28-DEC-1999: 990US-0173419.                                                |
| XX       |                                                                            |
| PR       | 27-DEC-2000: 2000US-0173419.                                               |
| XX       |                                                                            |
| PA       | (CURA-) CURAGEN CORP.                                                      |
| XX       |                                                                            |
| P1       | Shimkets RA, Leach M:                                                      |
| XX       |                                                                            |
| DR       | WPI: 2001-465210/50.                                                       |
| XX       |                                                                            |
| PT       | Polymeric nucleic acids encoding e.g. amylases, cyclins, polymerases,      |
| XX       | oncogenes and histones, useful for diagnosing and treating, e.g.           |
| PT       | cancer, autoimmune diseases and infections -                               |
| XX       |                                                                            |
| P5       | Claim 1: Page 2962: 4143pp: English.                                       |
| XX       |                                                                            |
| CC       | The present invention relates to oligonucleotides encoding polymorphic     |
| CC       | variants of proteins related to amylases, amyloid proteins, angiotensin,   |
| CC       | apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,       |
| CC       | histones, kinases, colony stimulating factors, complement related          |

|                          |                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------|
| CC                       | proteins, cytochromes, kinesins, cytokines, interferons, interleukins,               |
| CC                       | G-protein coupled receptors and thioesterases. The present sequence is               |
| CC                       | one such oligonucleotide. The oligonucleotides and the peptides encoded              |
| CC                       | by them may be used in the prevention, diagnosis and treatment of                    |
| CC                       | diseases associated with inappropriate expression of the proteins listed             |
| CC                       | above. Disorders that may be prevented, diagnosed and/or treated include             |
| CC                       | multifactorial diseases with a genetic component, such as autoimmune                 |
| CC                       | diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,                   |
| CC                       | systemic lupus erythematosus and Grave's disease), inflammation, cancer              |
| CC                       | (e.g. cancers of the bladder, brain, breast, colon and kidney,                       |
| CC                       | leukaemia), diseases of the nervous system and an infection of pathogenic            |
| CC                       | organisms.                                                                           |
| SO                       | Sequence 45 BP; 7 A; 2 C; 5 G; 31 T; 0 other:                                        |
| XX                       |                                                                                      |
| XX                       |                                                                                      |
| Query Match              | 1..5% Score 26; DB 22; Length 45;                                                    |
| Best Local Similarly     | 76.2%; Pred. No. 6.1e+03;                                                            |
| Matches 32; Conservative | 0; Mismatches 10; Indels 0; Gaps 0                                                   |
| Oy                       | 1714 aataatcaccctcgaggttcacaaaaaaatcccccaaaa 1755<br>11111 1 1 1111 1111111111111111 |
| Dd                       | 43 AAATAACAAACCCTGTCGTCAAAAAAAAAAAAAAAA 2                                            |
| RESULT                   | 5                                                                                    |
| AAV12343                 |                                                                                      |
| ID                       | AAV12343 standard; DNA: 37 bp.                                                       |
| XX                       |                                                                                      |
| AC                       | AAV12343:                                                                            |
| XX                       |                                                                                      |
| DT                       | 17-JUN-1998 (first entry)                                                            |
| XX                       |                                                                                      |
| DE                       | Ribonucleotide reductase R2 3'UTR fragment SEQ ID NO:42.                             |
| XX                       |                                                                                      |
| KM                       | Ribonucleotide reductase R2: 3'-untranslated region: 3'UTR; tumour;                  |
| KM                       | housekeeping gene; Identification: modulator; metastasis: neoplastic;                |
| KM                       | papilloma; atherosclerosis; angiogenesis; viral infection; ss.                       |
| OS                       | Homo sapiens.                                                                        |
| XX                       |                                                                                      |
| PN                       | W09800532-A2.                                                                        |
| XX                       |                                                                                      |
| PD                       | 08-JAN-1998.                                                                         |
| XX                       |                                                                                      |
| PF                       | 30-JUN-1997; 97WO-CA00454.                                                           |
| XX                       |                                                                                      |
| PR                       | 01-JUL-1996; 96US-0021152.                                                           |
| XX                       |                                                                                      |
| PA                       | (WRIG/) WRIGHT J A.                                                                  |
| XX                       | (YOUNG/) YOUNG A H.                                                                  |
| Pt                       | Wright JA, Young AH;                                                                 |
| XX                       |                                                                                      |
| DR                       | WPI: 1998-08695B/08.                                                                 |
| XX                       |                                                                                      |
| Pt                       | New oligo-nucleotide(s) complementary to untranslated regions of                     |
| Pt                       | housekeeping genes - are useful in, e.g. identifying modulators of                   |
| Pt                       | tumour growth/metastasis and inhibiting growth of neoplastic cells                   |
| XX                       |                                                                                      |
| PS                       | Claim 7: Page 32; 64pp; English.                                                     |
| XX                       |                                                                                      |
| CC                       | The present sequence represents a 3'-untranslated region (3'UTR) fragment            |
| CC                       | of ribonucleotide reductase R2. The present invention describes: (1)                 |
| CC                       | oligonucleotides (ON) comprising at least 7 consecutive nucleotides (nt)             |
| CC                       | or their analogues of a UTR of a housekeeping gene; (2) antisense ON                 |
| CC                       | (AON) complementary to ON; (3) ribozymes (Rb) complementary or homologous            |
| CC                       | to ON, and able to cleave it; (4) DNA sequence encoding ON, AON and Rb;              |
| CC                       | (5) an antibody (Ab) that binds to ON, AON and Rb; (6) a nt probe ntp                |
| CC                       | that hybridize to ON, AON and Rb. ON, AON, Rb and Ab are used to modulate            |
| CC                       | (especially inhibit) growth of tumour cells (especially neoplastic cells)            |
| CC                       | and to reduce their capacity for metastasis. The above may also be used              |
| CC                       | to treat benign proliferative disorders e.g. papillomas, atherosclerosis,            |
| CC                       |                                                                                      |







KM Interleukin; G-protein coupled receptor; thioesterase; inflammation;  
KM multifactorial disease; autoimmune disease; infection;  
KM nervous system disease; ss.  
XX Homo sapiens.  
OS  
XX  
PM MO200147944-A2.  
PD 05-JUL-2001.  
PF 28-DEC-2000; 2000MO-US35458.  
PR 28-DEC-1999; 99US-0173419.  
PR 27-DEC-2000; 2000US-0173419.  
XX  
PA (CURA-) CURAGEN CORP.  
XX  
PI Shimkets RA, Leach M:  
DR WPI: 2001-465210/50.  
PT Polymorphic nucleic acids encoding e.g. amyloses, cyclins, polymerases,  
PT oncogenes and histones, useful for diagnosing and treating, e.g.  
PT cancer, autoimmune diseases and infections -  
XX  
PS Claim 1: Page 1788; 4143pp: English.

The present invention relates to oligonucleotides encoding polymorphic variants of proteins related to amyloses, amyloid proteins, angiotenin, apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes, histones, kinases, colony stimulating factors, complement related proteins, cytochromes, kinesins, cytokines, interleukons, interleukins, G-protein coupled receptors and thioesterases. The present sequence is one such oligonucleotide. The oligonucleotides and the peptides encoded by them may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate expression of the proteins listed above. Disorders that may be prevented, diagnosed and/or treated include CC multifactorial diseases with a genetic component, such as autoimmune diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes, systemic lupus erythematosus and Grave's disease), inflammation, cancer (e.g. cancers of the bladder, brain, breast, colon and kidney, leukemia), diseases of the nervous system and an infection of pathogenic organisms.

CC  
CC  
CC Sequence 45 BP: 8 A; 4 C; 3 G; 30 T; 0 other;

SQ

Query Match            1.4%     Score 23.8; DB 22; Length 45:  
Best Local Similarity      92.6%; Pred. No. 2,1e+04;  
Matches    25; Conservative    0; Mismatches    2; Indels    0; Gaps    0:

OY       1729 agtttcacaaaaaaaaaaaaaa 1755  
        | ||||| ||||| ||||| ||||| |||||  
Db       30 AAATTACAAATAAAAAAAAAAAAAA 4

RESULT\_13  
AAL28459/C  
ID       AAL28459 standard; DNA: 46 BP.  
XX  
AC       AAL28459;  
XX  
DT       24-JAN-2002 (first entry)  
DE       Human SNP oligonucleotide #1667.  
XX  
KW Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;  
KW neuroprotective; antimicrobial; gene therapy; vaccine; amylose; cancer;  
KW amyloid protein; angiopoietin; apoptosis related protein; cadherin;  
KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;  
KW complement related protein; cyochrome; kinesin; cytokine; interferon;  
KW interleukin; G-protein coupled receptor; thioesterase; inflammation;  
KW multifactorial disease; autoimmune disease; infection;

|            |                                                                                       |
|------------|---------------------------------------------------------------------------------------|
| KW         | nervous system disease; ss.                                                           |
| XX         |                                                                                       |
| OS         | Homo sapiens.                                                                         |
| PX         |                                                                                       |
| NN         | WO200147944-A2.                                                                       |
| PD         | 05-JUL-2001.                                                                          |
| XX         |                                                                                       |
| PP         | 28-DEC-2000; 2000MO-US35498.                                                          |
| XX         |                                                                                       |
| PR         | 28-DEC-1999; 99US-0173419.                                                            |
| XX         | 27-DEC-2000; 2000US-0173419.                                                          |
| PA         | (CURA-) CURAGEN CORP.                                                                 |
| P1         |                                                                                       |
| P1         | Shimkets RA, Leach M;                                                                 |
| DR         | WP1: 2001-465210/50.                                                                  |
| XX         |                                                                                       |
| PT         | Polymorphic nucleic acids encoding e.g. Amylases, cyclins, polymerases,               |
| P7         | cancer, autoimmune diseases and infections -                                          |
| PS         | Claim 1; Page 1657; 4143pp; English.                                                  |
| XX         |                                                                                       |
| GZ         | The present invention relates to oligonucleotides encoding polymorphic                |
| CC         | variants of proteins related to amylases, amyloid proteins, angiotensin,              |
| CC         | apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,                  |
| CC         | histones, kinases, colony stimulating factors, complement related                     |
| GC         | proteins, cyclochromes, kinesins, cytokines, interferons, interleukins,               |
| CC         | G-protein coupled receptors and thioesterases. The present sequence is                |
| CC         | one such oligonucleotide. The oligonucleotides and the peptides encoded               |
| CC         | by them may be used in the prevention, diagnosis and treatment of                     |
| CC         | diseases associated with inappropriate expression of the proteins listed              |
| CC         | above. Disorders that may be prevented, diagnosed and/or treated include              |
| CC         | multifactorial diseases with a genetic component, such as autoimmune                  |
| CC         | diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,                    |
| CC         | systemic lupus erythematosus and Grave's disease), inflammation, cancer               |
| CC         | (e.g. cancers of the bladder, brain, breast, colon and kidney,                        |
| CC         | leukaemia), diseases of the nervous system and an infection of pathogenic             |
| CC         | organisms.                                                                            |
| YX         |                                                                                       |
| SO         | Sequence 46 BP; 4 A; 3 C; 3 G; 36 T; 0 other:                                         |
|            |                                                                                       |
|            | Query Match      1.4%; Score 23.8; DB 22; Length 46;                                  |
|            | Best Local Similarity    92.6%; Pred. No. 2.le+04;                                    |
|            | Matches     25; Conservative    0; Mismatches    2; Indels    0; Gaps    0.           |
| OY         | 1729 agcttcacaaaaaaaaaaaaaaatg 1755<br>         <br>DB      27 AATTATACAAAAAAAATAAA 1 |
| RESULT 14  |                                                                                       |
| AAL29941/C |                                                                                       |
| ID         | AAL29941 standard; DNA; 47 BP.                                                        |
| XX         |                                                                                       |
| AC         | AAL29941;                                                                             |
| XX         |                                                                                       |
| DT         | 24-JAN-2002 (first entry)                                                             |
| XX         |                                                                                       |
| DE         | Human SNP oligonucleotide #3149.                                                      |
| KW         | Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;                   |
| KW         | neuroprotective; antimicrobial; gene therapy; vaccine; amylase; cancer;               |
| KW         | amyloid protein; angiotensin; apoptosis related protein; cadherin;                    |
| KW         | cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;             |
| KW         | complement related protein; cytochrome; kinasin; cytokine; interferon;                |
| KW         | interleukin; G-protein coupled receptor; thioesterase; inflammation;                  |
| KW         | multifactorial disease; autoimmune disease; infection;                                |
| KW         | nervous system disease; ss.                                                           |
| XX         |                                                                                       |

|    |                                                                           |
|----|---------------------------------------------------------------------------|
| OS | Homo sapiens.                                                             |
| XX |                                                                           |
| PN | WO200147944-A2.                                                           |
| XX |                                                                           |
| PD | 05-JUL-2001.                                                              |
| XX |                                                                           |
| PF | 28-DEC-2000; 2000MO-US35498.                                              |
| XX |                                                                           |
| PR | 28-DEC-1999; 99US-0173419.                                                |
| XX |                                                                           |
| PR | 27-DEC-2000; 2000US-0173419.                                              |
| XX |                                                                           |
| PA | (CURA-) CURAGEN CORP.                                                     |
| XX |                                                                           |
| PI | Shinkels RA, Leach M;                                                     |
| XX |                                                                           |
| DR | WPI; 2001-465210/50.                                                      |
| XX |                                                                           |
| PT | Polyomorphie nucleic acids encoding e.g. amylases, cyclins, polymerases,  |
| XX |                                                                           |
| PT | oncogenes and histones, useful for diagnosing and treating, e.g.          |
| XX |                                                                           |
| PS | cancer, autoimmune diseases and infections.                               |
| XX |                                                                           |
| PS | Claim 1; Page 2289; 4143pp; English.                                      |
| XX |                                                                           |
| CC | The present invention relates to oligonucleotides encoding polymorphic    |
| CC | variants of proteins related to amylases, amyloid proteins, angiotensin,  |
| CC | apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,      |
| CC | histones, kinases, colony stimulating factors, complement related         |
| CC | proteins, cytochromes, kinesins, cytokines, interferons, interleukins,    |
| CC | G-protein coupled receptors and thioesterases. The present sequence is    |
| CC | one such oligonucleotide. The oligonucleotides and the peptides encoded   |
| CC | by them may be used in the prevention, diagnosis and treatment of         |
| CC | diseases associated with inappropriate expression of the proteins listed  |
| CC | above. Disorders that may be prevented, diagnosed and/or treated include  |
| CC | multifactorial diseases with a genetic component, such as autoimmune      |
| CC | diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,        |
| CC | systemic lupus erythematosus and Grave's disease), inflammation, cancer   |
| CC | (e.g. cancers of the bladder, brain, breast, colon and kidney,            |
| CC | leukaemia), diseases of the nervous system and an infection of pathogenic |
| CC | organisms.                                                                |
| SO |                                                                           |
|    | Sequence 47 BP; 10 A; 4 C; 2 G; 31 T; 0 other;                            |
|    |                                                                           |
|    | Query Match 1.4%; Score 23.8; DB 22; Length 47;                           |
|    | Best Local Similarity 92.6%; Pred. No. 2; le+04;                          |
|    | Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0                |
| OY | 1729 agttacaaaaaaaaaaaaaa 1755                                            |
|    |                                                                           |
| DB | 28 AGCTAACAAAAAAA 2                                                       |
|    |                                                                           |
|    | RESULT 15                                                                 |
|    | AAZ43897/C                                                                |
| ID | AAZ43897 standard; DNA; 38 BP.                                            |
| XX |                                                                           |
| AC | AAZ43897;                                                                 |
| XX |                                                                           |
| DT | 10-MAR-2000 (first entry)                                                 |
| XX |                                                                           |
| DE | M. tuberculosis rpo-beta primer 10.                                       |
| XX |                                                                           |
| KM | RNA polymerase; rpo-beta; detection; diagnostic; trap probe; primer; ss.  |
| XX |                                                                           |
| OS | Mycobacterium tuberculosis.                                               |
| XX |                                                                           |
| PN | EP962536-A1.                                                              |
| XX |                                                                           |
| PD | 08-DEC-1999.                                                              |
| XX |                                                                           |
| PF | 29-MAY-1999; 99EP-0110458.                                                |
| XX |                                                                           |
| PR | 04-JUN-1998; 98DE-1024900.                                                |
| XX |                                                                           |

